

Co-funded by the Erasmus+ Programme of the European Union

Introduction to Oil & Gas Industry and Sustainable Development



Marine Coastal and Delta Sustainability for Southeast Asia (MARE)

Overview

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- Contains "Introduction to Oil & Gas Industry and Sustainable Development" course materials (for BEng. Petroleum Engineering)
- Site URL: <u>https://ulearn.utp.edu.my/course/view.php?id=9423</u>
- Available in English.
- Modules:
 - Announcements
 - Overview
 - Course Syllabus
 - Teaching Methodology
 - Course Materials
 - Lecture Notes
 - Additional Resources
 - Test & Quiz
 - Statistics

Overview (Disclaimer)







The video provides an overview of some statistics of oil pollution in the oceans and the effects on the marine environment.

Course Syllabus



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	Dashboard My courses PEB1012:Introduction to Oil and Gas Industry and Sustainable Development - January 2021	
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&	Announcements	
☆	S Course Synopsis	
	The course aims to introduce the various aspects of the oil and gas industry and sustainability throughout the life cycle of the industry.	
	 The topics covered are oil and gas search and discovery, production, processing. For downstream, oil and gas refining into petroleum and petrochemical products and feedstocks are introduced. Finally, the course also focuses on principles of sustainable development and the aspects of renewable energy for a sustainable future. 	
\bigcirc	Topic on Marine Pollution Control and Management is also included in this course.	
ራ	Course Content	
	1. Oil and Gas Industry Life Cycle	
ⅲ	2. Introduction to Oil and Gas Exploration	
ର୍ଜ	3. Oil and Gas Recovery Techniques	
	4. Drilling Operations and Equipment	
ß	5. Production Operations and Facilities	
	6. Downstream Processes	
	7. Principles of Sustainable Development	
	8. Current Issues in SD - Poverty, Energy Security and Climate Change	
	9. Renewable Energy for Sustainable Future	
	10. Marine Pollution Control & Management	
	S Teaching Methodology	
	Online - Massive Open Online Courses (MOOC) and Guided Learning	
	1. ULearn – Students are required to do self study / self learning every week (Online via ULearn)	
	2.Guided Learning (Online Lecture via MS Teams) Course materials will be available for view and download in ULearn on every Mondays of each week. Please refer to ULearn for announcements.	

SIMPORTANT! Students Self Reflection Tool (SSRT) Survey (5 FEBRUARY 2021 - 17 FEBRUARY 2021) - 1st Cycle of Jan 2021 Semester

Teaching Methodology





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	Dashboard My courses PEB1012:Introduction to Oil and Gas Industry and Sustainable Development - January 2021	
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曲	1. Oil and Gas Industry Life Cycle 2. Introduction to Oil and Gas Exploration	
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ß	5. Production Operations and Facilities	
	6. Downstream Processes 7. Principles of Sustainable Development	
	8. Current Issues in SD - Poverty, Energy Security and Climate Change	
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Course Materials



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∃	ULLearn ULLearn Multi Particular Vision ULLearn Multi Particular Vision			Ĵ	۶	۵.	•
ב	Marine Pollution Control and Management_Jan 2021					i	
Ĵ,	These lecture materials are for the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) (Project No. 610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP).						
2	This project has been funded with support from the European Commission. This publication reflects the views only of the authors, and the Commission cannot be made responsible for any use which may be made from the term.	m the in	formatio	n contai	ined		
⁄ን	Co-funded by the Erasmus+ Programme						
I	of the European Union						
?	This lecture notes contain topics of the impacts of oil and gas activities on the marine environment, awareness on the effects of hydrocarbon exploration, and an overview of the rules and regulations in marine pollution	n manag	ement.				
<u>م</u>	[Video] 1. What Happens After An Oil Spill?				\checkmark	i	
	The video explains the impacts of oil spill towards the marine ecosystem.						
•	[Video] 2. Oil Pollution in Our Oceans					8	
<u> </u>					U.	·	
ንን	The video provides an overview of some statistics of oil pollution in the oceans and the effects on the marine environment.						
	🙆 [Video] 3. How Do We Clean Up Oil Spills?				\checkmark	1	
	The video describes on techniques to clean up oil spills in the ocean, which includes containing the oil spill using booms and dispersing chemicals to remove the oil spills.						
	S [Video] 4. DH Oil Spill Timeline				V	i	
	The video shows the Deepwater Horizon Oil Spill timeline.						
	[Video] 5. BP Oil Spill 5 Years Later_ Wildlife Still Suffering _ msnbc				\checkmark	1	
	The video presents the effects of the Deepwater Horizon oil spill contamination after five years, towards the environment and the wildlife. It provides awareness to the students on the effects of oil spill in a long term.						

- Lecture Notes: Marine Pollution Control and Management
- Video 1: What Happens After an Oil Spill?
- Video 2: Oil Pollution in Our Oceans
- Video 3: How Do We Clean Oil Spills?
- Video 4: DH Oil Spill Timeline
- Video 5: BP Oil Spills 5 Years Later

Lecture Notes



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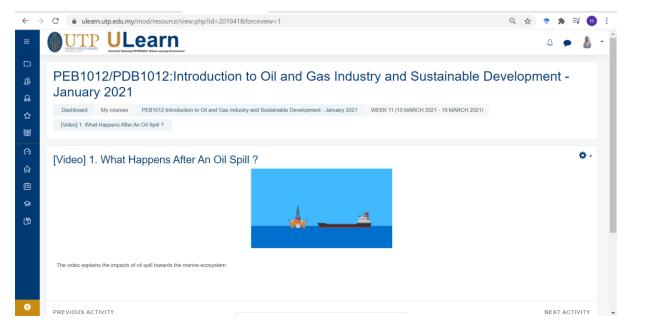


Additional Resource



Video 1: What Happens After an Oil Spill ?

Video 2: Oil Pollution in Our Oceans





Test & Quiz





Test

Quiz

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ያ	WEEK 12 (22 MARCH 2021 - 26 MARCH 2021)	
A	General Description for Week 12 Lesson Plan	V
습	Week 12 (22 March 2021 - 26 March 2021)	
I	Online Session on Friday 26 March 2021 (5.00 P.M 6.00 P.M.) via MS Teams (Compulsory)	
0	Click here to join the meeting	
ጨ	Course Outcome Survey (COS)	
	Questionnaires for Students (MARE - Marine Pollution Control and Management)	
	ONLINE TEST 3 on Friday 26 March 2021 (7.00 P.M 11.00 P.M.) via ULearn	
ଜ	MPORTANTI Course Outcomes Survey (22 March 2021 - 10 April 2021)	
າ	Questionnaire for Students (MARE - Marine Pollution Control and Management)	\checkmark
	ONLINE TEST 3	V
	Rearised Available from 26 March 2021, 7:00 PM	
	INSTRUCTION TO CANDIDATES (MCQ)	
	1. This ONLINE TEST contains THIRTY (30) Multiple Choice Questions (MCQ) ONLY	
	2. Answer ALL questions in the timeframe given.	
	3. Only SINGLE attempt for this test is ALLOWED	
	 EACH question needs to be ANSWERED before proceeding to the NEXT one. Going back to the previous question is NOTALLOWED. Attempts must be submitted before time expires, or they are not counted. 	
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≡			UTP ULearn	۵	•	1		•
C			The video provides an overview of some statistics of oil pollution in the oceans and the effects on the marine environment.					
ሜ			Si [Video] 3. How Do We Clean Up Oil Spills_			Y		
æ			The video describes on techniques to clean up oil spills in the ocean, which includes containing the oil spill using booms and dispensing chemicals to remove the oil spills.					
☆ III			2 [Video] 4. DH Oil Spill Timeline			Y		
89			The video shows the Deepwater Horizon Oil Spill timeline.					
0			Vrideo] 5. BP Oil Spill 5 Years Later Wildlife Still Suffering msnbc			V		
ଜ			🐼 [Video] 5. bP Oil Spill 5 treats Latervindue Still Sutheringmando:					
曲			The video presents the effects of the Deepwater Horizon on spin contamination after tive years, towards the environment and the wildlife. It provides awareness to the subtents on the effects of on spin	in a ioi	ig tern	n.		
_ ଜ			S Learning Satisfaction Poll Week 11 (PDB/PEB1012 - Lecture 19 March 2021)			V		
			Questionnaire for Students (MARE - Marine Pollution Control and Management)			\checkmark		
ሮን		_	The questionnaire is circulated among students to seek their feedback on the teaching and learning experience in the course.					
		Г	🕒 ONLINE QUIZ 4			\checkmark		
			Restricted Available from 19 March 2021, 7:00 PM					
			INSTRUCTION TO CANDIDATES (MCQ)					
•			1. This ONLINE QUIZ contains TEN (10) Multiple Choice Questions (MCQ) ONLY 2. Answer ALL questions in the timeframe given 3. Only SINGLE attempt for this tent is ALLOWED 4. EACH question needs to be ANSWERED before proceeding to the NEXT one. Going back to the previous question is NOT ALLOWED. 5. Attempts must be submitted before time expires, or they are not counted.					





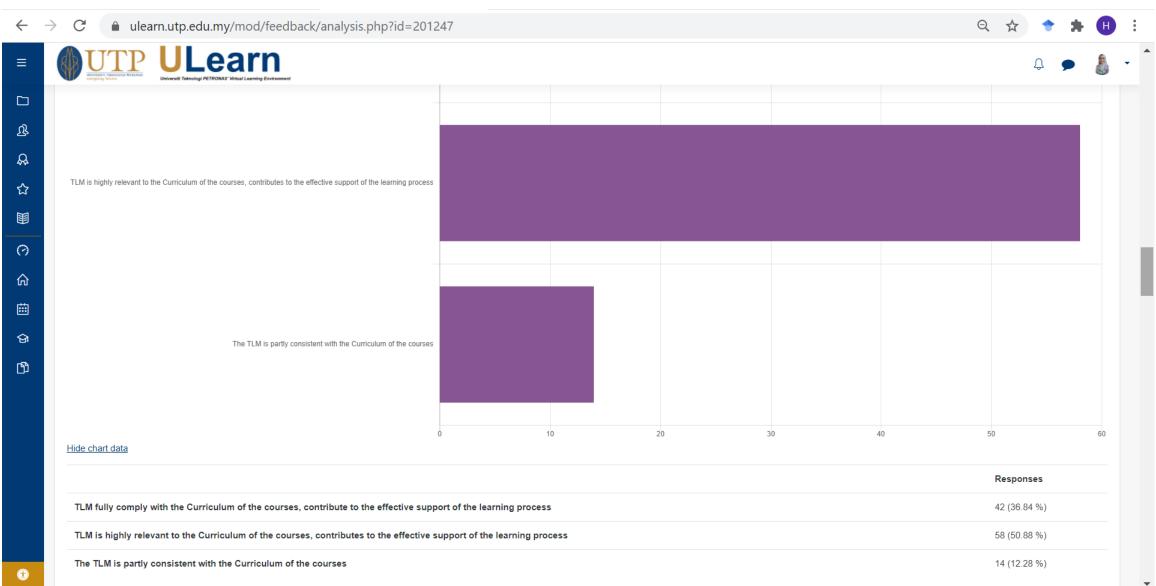
Questionnaires

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			Learn	1						¢ 🗩	
	Anonymo	us entries	s (114)								
					1 2	2 <u>3</u> <u>4</u> <u>5</u> <u>6</u>	<u>»</u>				
	Download tab	le data as	Comma separated val	ues (.csv) 💠 Download	1						
-	<u>Response</u> number ▲	1. Your ove assessment the attende lOGISD cou Was the co interesting you?	<u>at of the</u> ed <u>effectivenes</u> urse. <u>of the IOGIS</u> urse <u>course</u>	3. What aspects of 3. What aspects 3. What	Teaching and Learning Materials (TLM) that support the IOGISD courses? Do they effectively support the learning process in the	5. Was your personal level of training sufficient enough to understand the IOGISD course?	6. Does the IOGISD course require improvement in your opinion and in which part?	7. How do you generally assess the usefulness of the developed multimedia modules of the IOGISD course in the ULearn system in general using the MOOC learning model?	8. How do you assess the convenience of navigation within the ULearn system using the MOOC learning model of IOGISD course?	9. How useful do you think the use of video lectures in a MOOC learning model?	_
	<u>Response</u> <u>number:</u> <u>1</u>	Good, intere	esting Studying sections (modules) of course devo to self-study	ted course	TLM is highly relevant to the Curriculum of the courses, contributes to the effective support of the learning process	No, new knowledge was required	No, it does not require.	Multimedia modules in the IOGISD course are very useful for self-study	Navigation is intuitive, helps accelerate the learning process	Remote video lectures are very useful for self-study	1
	<u>Response</u> <u>number:</u> 2	Good, intere	esting Degree of involvement the learning process	Support for in individual learning paths	The TLM is partly consistent with the Curriculum of the courses	Yes, it was	Yes, it requires, in part : Monitoring the progress of students so that doubts on the subjects can be cleared.	The use of multimedia e-learning modules in the IOGISD course does not much differ from studying of traditional textbooks	Navigation is intuitive, helps accelerate the learning process	Remote video lectures are very useful for self-study	Û
	<u>Response</u> <u>number:</u> <u>3</u>	Good, intere	esting Degree of involvement the learning process	Support for in individual learning paths	TLM is highly relevant to the Curriculum of the courses, contributes to the effective support of the learning process	Yes, it was	Yes, it requires, in part : Monitoring the progress of students so that doubts on the subjects can be	Multimedia modules in the IOGISD course are very useful for self-study	The proposed navigation does not affect the acceleration of the learning process of the material	Remote video lectures are very useful for self-study	Û





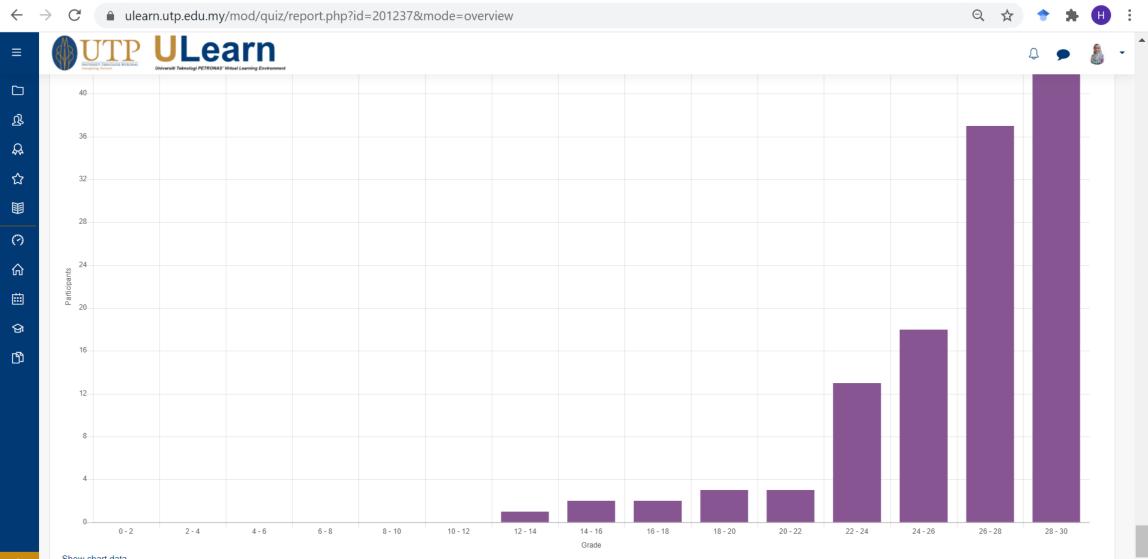
Questionnaires Results







Test Results

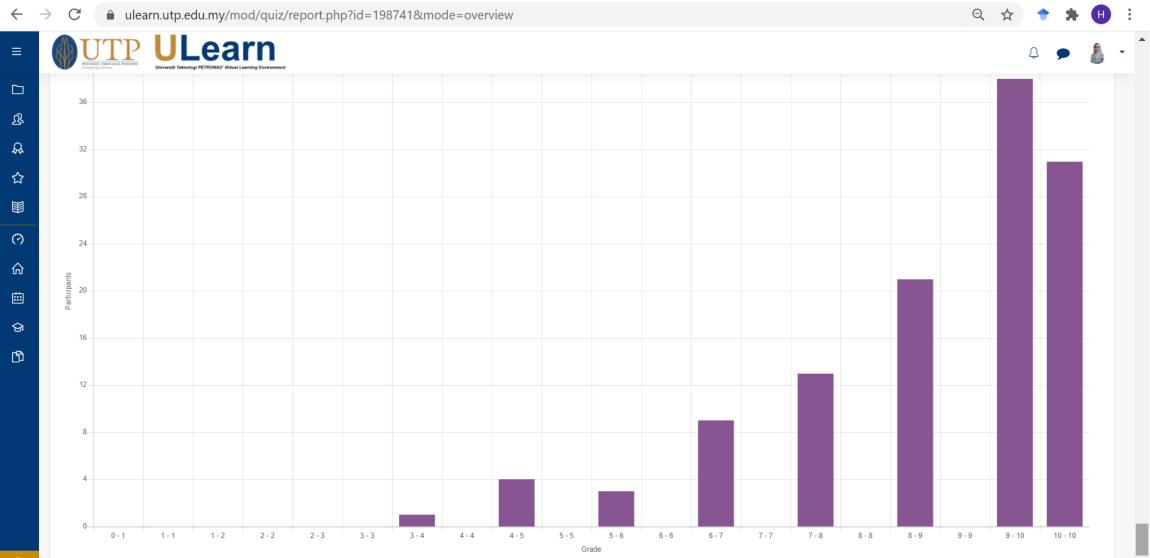


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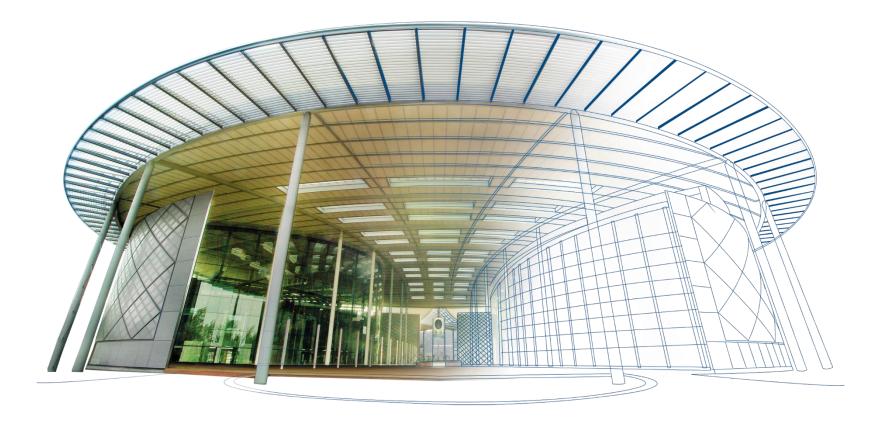




Quiz Results



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